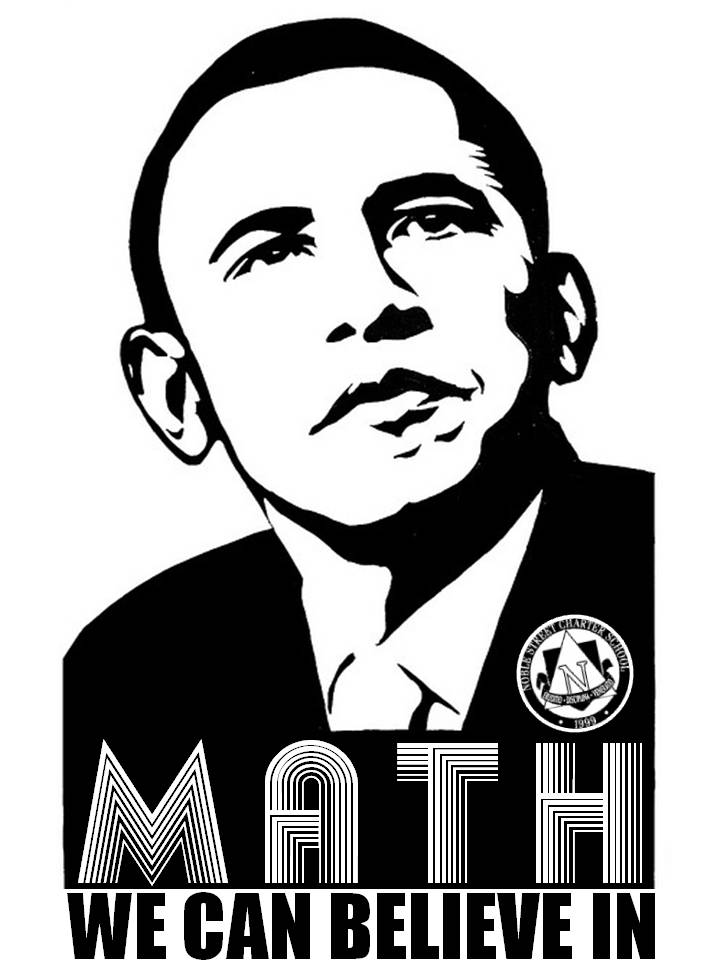
Name:

*Mr. Tiénou-Gustafson, Mr. Bielmeier*

Geometry, Period

Date:



**Geometry Practice**

**College Readiness Standards (CRS):**

* dsnfused ds HW #1ions, write)
* 5 lines)ectively.ld Grammar Gaffselligently presenting your ideas in college writing & life.the**PPF 401** Find the measure of an angles using properties of **parallel** lines
* **PPF 501** Use several angle properties to find an **unknown** angle measure

**Transversals & Missing Angles**

|  |  |  |  |
| --- | --- | --- | --- |
| 1. Identify the relationship between the two angles. | 2. Identify the relationship between the two angles. | | 3. Identify the relationship between the two angles. |
| 4. Find the value of x. | | 5. Find the value of x. | |
| 6. **Example**: In the figure below, line segments *a*  and *b* are parallel and they are intersected by line segment *c*. What is the relationship between 4 and 5? **Circle all that apply.**     1. *m*4 = *m*5 2. *m*4 *m*5 3. *m*4 + *m*5 = 90 4. *m*4 + *m*5 = 180 5. Cannot be determined from the given information | | 7. **You Try!** In the figure below, lines l and m are parallel. Which of the following angles do not have a measure of 75? **Circle all that apply.**  5  1  2  4  3  *l*  105o  *m*  75o  6   1. 1 2. 2 3. 3 4. 4 5. 5   **8.** What is the measure of 6? | |

***Directions: (1)*** *Solve for the missing angle and* ***(2)*** *indicate the relationship between angles:* ***complementary*** *(=90°),* ***supplementary*** *(=180°), or* ***congruent*** *(including vertical, consecutive, alternate interior, & alternate exterior angles)*

|  |  |  |  |
| --- | --- | --- | --- |
| 1.      m∠b=\_\_\_\_\_\_\_\_\_  Angle relationship: | 2.    m∠b=\_\_\_\_\_\_\_\_\_  Angle relationship: | | 3.  m∠b=\_\_\_\_\_\_\_\_\_  Angle relationship: |
| Example 2:  In the figure below, lines *a* and *b* are parallel, and 9 = 130.  **A.** **Find 1.**  **B. If 7 = 120°, find 2** | | You Try!  1. In the figure below, lines *p* and *q* are parallel, and 5 = 55.  **A. Find 8.**  **B. If 2 = 130°, find .** | |
| Example 3:  9. If 1 5, then which pairs of lines, if any, **must** be parallel? *(****Remember****:* ***never*** *assume that drawings are made to scale nor that you can go based on what* ***looks*** *congruent.)*    **r**  **s**  **t**  **u**   1. *r s* only 2. *t u* only 3. *r s* and *t u* 4. No lines must be parallel 5. Cannot be determined from the given information | | You Try!  10. If 7 5, then which pairs of lines, if any, must be parallel?  **r**  **s**  **t**  **u**   1. *r s* only 2. *t u* only 3. *r s* and *t u* 4. No lines must be parallel 5. Cannot be determined from the given information | |
| 2. In the figure below lines *a* and *b* are parallel, and 2 = 145. Find the measure of 10. | | 3. In the figure below, lines *l* and *m* are parallel. Find the indicated angle.  40  ?  *l*  120 o o  *m* | |
| 1. Find the value of x.  3x°  4x-2°  3x+8° | | 2. Find the measure of the indicated angle. | |